

GTF 76/ 48 - Disconnect terminal block



3121025

<https://www.phoenixcontact.com/nz/products/3121025>

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Disconnect terminal block, nom. voltage: 24 V, nominal current: 41 A, connection method: Screw connection, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², mounting: NS 35/7,5, NS 35/15, NS 32, color: gray

Your advantages

- Once the disconnect slide has been opened to the "off" position, the red light indicates whether there is a ground fault in the control circuit
- When the disconnect slide is closed, switch position "on", the yellow light indicates grounded normal operation

Commercial data

Item number	3121025
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE1131
Product key	BE1131
Catalog page	Page 533 (C-1-2019)
GTIN	4017918092924
Weight per piece (including packing)	60.76 g
Weight per piece (excluding packing)	60.76 g
Country of origin	DE

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Technical data

Notes

General

Note	The max. load current must not be exceeded by the total current of all connected conductors.
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Product properties

Product type	Disconnect terminal block
Number of connections	2
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	1.31 W
Voltage LED	48 V
Current LED	2 mA

Input data

Voltage LED	48 V
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Connection data

Number of connections per level	2
Nominal cross section	6 mm ²
Screw thread	M4
Tightening torque	1.2 ... 1.5 Nm
Stripping length	12 mm
Internal cylindrical gage	A5
Conductor cross section rigid	0.5 mm ² ... 10 mm ²
Cross section AWG	20 ... 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 6 mm ²
Conductor cross section, flexible [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 10 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 4 mm ²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm ² ... 4 mm ²
2 conductors with same cross section, solid	0.5 mm ² ... 6 mm ²
2 conductors with same cross section, flexible	0.5 mm ² ... 6 mm ²
2 conductors with same cross section, flexible, with ferrule	0.5 mm ² ... 6 mm ²

GTF 76/ 48 - Disconnect terminal block



3121025

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without plastic sleeve	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 4 mm ²
Nominal current	41 A
Maximum load current	57 A (with 10 mm ² conductor cross section)
Nominal voltage	24 V
	48 V
Nominal cross section	6 mm ²

Dimensions

Width	22.5 mm
Height	64.5 mm
Depth on NS 15	53.5 mm
Depth on NS 32	59 mm
Depth on NS 35/7,5	54 mm
Depth on NS 35/15	61.5 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Electrical tests

Surge voltage test

Result	Test passed
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Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 6 mm ²	0.72 kA
Result	Test passed

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Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm ² / 0.3 kg
	6 mm ² / 1.4 kg
	10 mm ² / 2 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32
	NS 15

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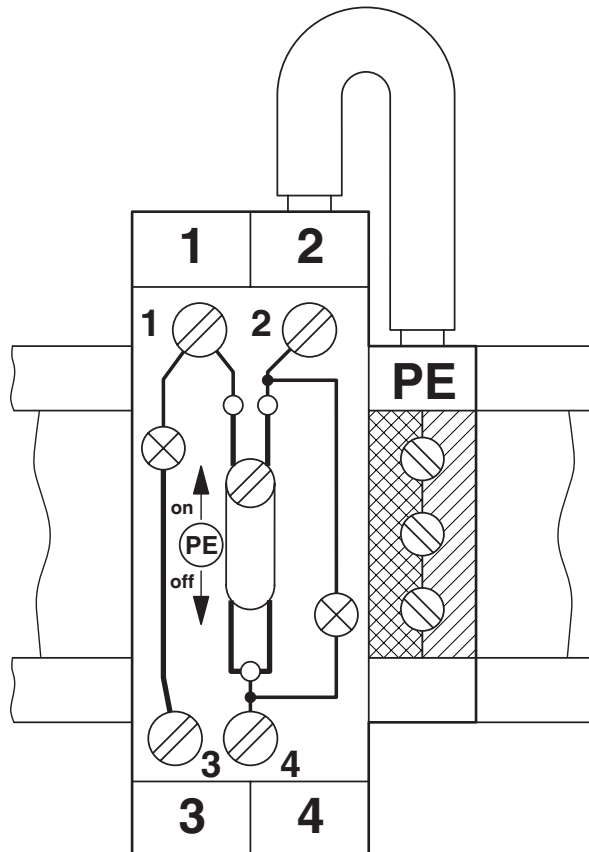
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Drawings

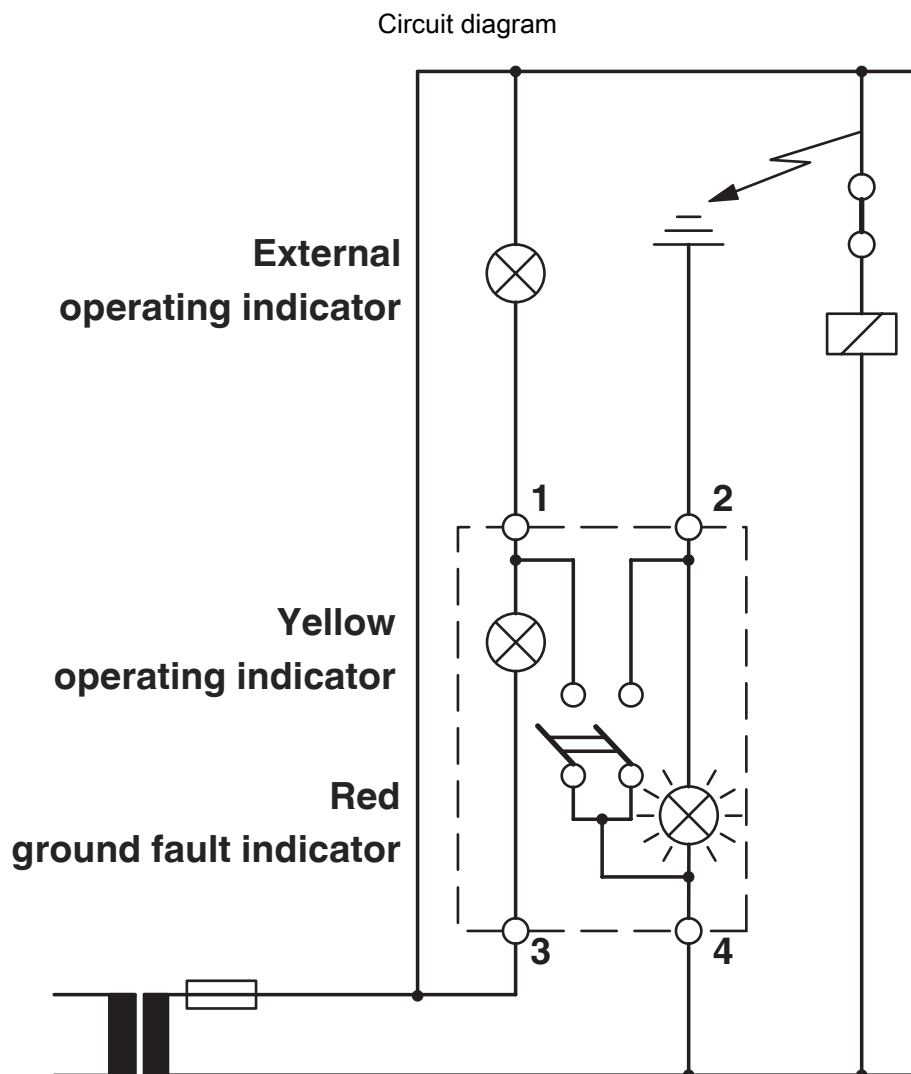
Schematic diagram



GTF 76/ 48 - Disconnect terminal block

3121025

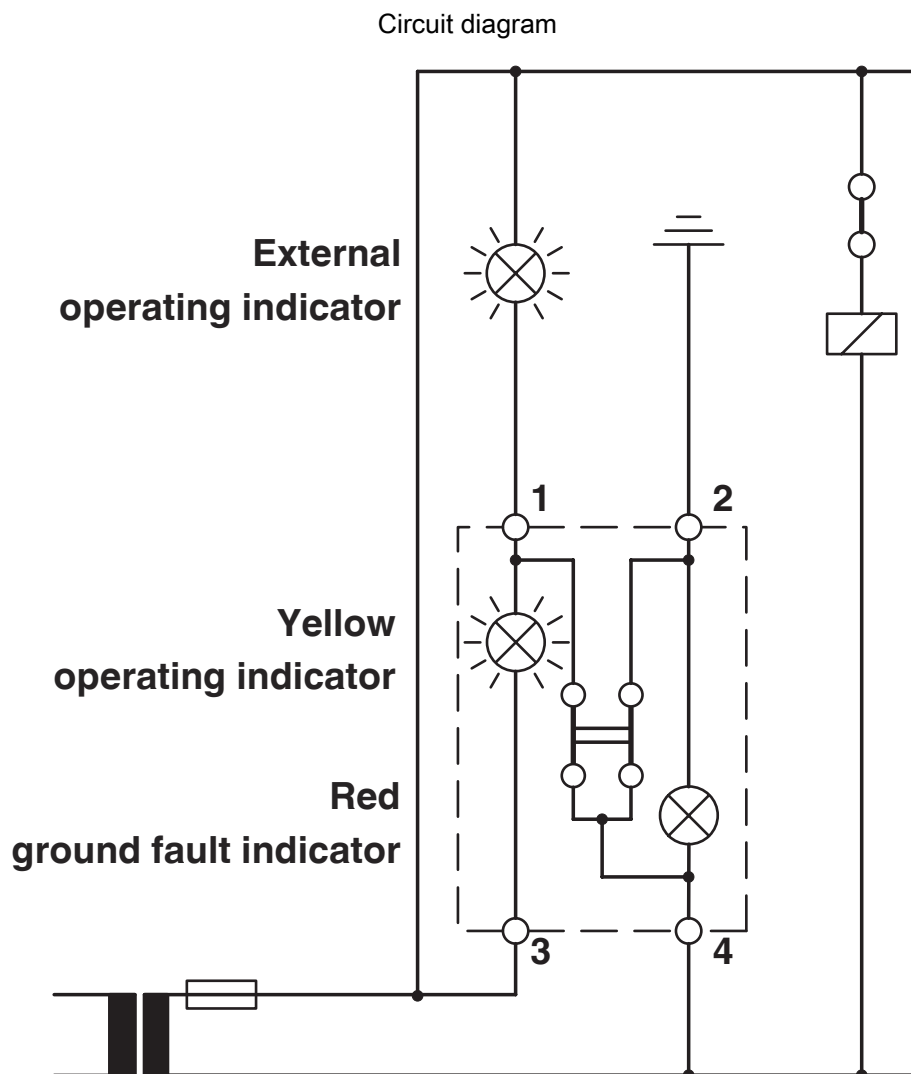
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3121025

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3121025

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nz/products/3121025>



EAC
Approval ID: RU C-DE.BL08.B.00534

cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	50 V	50 A	26 - 8	-
Use group C				
	50 V	50 A	26 - 8	-

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Classifications

ECLASS

ECLASS-11.0	27141126
ECLASS-12.0	27141126
ECLASS-13.0	27250108

ETIM

ETIM 9.0	EC000902
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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